

L3 ANSWER 75 OF 108 CA COPYRIGHT 2005 ACS on STN
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 TI Process for combined decomposition of organic compounds and
 removal of mercury, lead, and chromium from fly
 ash from trash-burning plants
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 SO Eur. Pat. Appl., 6 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 IC ICM C22B007-02
 CC 54-2 (Extractive Metallurgy)
 Section cross-reference(s): 59

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 380467	A2	19900801	EP 1990-890011	19900118
	EP 380467	A3	19900905		
	R: CH, DE, DK, FR, GB, IT, LI, SE				
	AT 8900150	A	19910715	AT 1989-150	19890126
	AT 394102	B	19920210		
PRAI	AT 1989-150	A	19890126		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
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EP 380467	ICM	C22B007-02
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AB The fly ash from trash-burning plants is
 heated at >250.degree. (preferably 400-700.degree.) in an
 oxidizing atm. without slag formation. The org. compds. are burned to CO2
 and H2O. The resulting flue gas is passed through an adsorbent
 (esp. activated C) to sep. Hg that is later recovered by steam desorption.
 The remaining fly ash is leached with aq. Na2CO3
 and/or NaOH soln. to dissolve Cr6+ and Pb4+ compds. and ppt. Ca2+ compds.
 as CaCO3. The Cr6+ + Pb4+ compds. are treated with FeSO4 to obtain their
 hydroxides. Efficiency of dioxin compd. decompn. is 99%, and that of Hg
 desorption is >98%.

ST mercury recovery fly ash heating; lead
 recovery fly ash leaching; chromium leaching
 fly ash heating; trash burning fly
 ash leaching

IT Ashes (residues)
 (fly, metal removal from, heating and leaching for)

IT 7439-97-6P, Mercury, preparation
 RL: PUR (Purification or recovery); PREP (Preparation)
 (recovery of, from fly ash from trash-burning
 plant, heating for)

IT 7439-92-1P, Lead, preparation 7440-47-3P, Chromium, preparation